

Informe

Table of contents

1	Ejemplo query 10	2
2	Query 7	17
3	Query 8	18
3.1	Línea de tiempo	19
4	Query 9	19

```
library(odbc)
library(DBI)
library(dplyr)
```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

filter, lag

The following objects are masked from 'package:base':

intersect, setdiff, setequal, union

```
library(ggplot2)
library(gt)
```

```

keys <- readLines("keys.txt", warn = FALSE)
username <- gsub("username:", "", keys[1])
password <- gsub("password:", "", keys[2])

con <- dbConnect(odbc(),
                  Driver = "SQL Server",
                  Server = "157.92.26.17,1443",
                  Database = "AdventureWorksDW2019",
                  UID = username,
                  PWD = password)

```

1 Ejemplo query 10

```

query10 <- "WITH producto_venta_reseller AS (SELECT rsales.ProductKey, rsales.OrderQuantity
FROM dbo.FactResellerSales rsales
LEFT JOIN dbo.DimReseller dr ON rsales.ResellerKey = dr.ResellerKey
WHERE YEAR(rsales.OrderDate) IN (2010, 2011, 2012, 2013)),
sod_reseller AS(
    SELECT DISTINCT SalesOrderNumber, ResellerName
    FROM producto_venta_reseller
),
total_vtas_reseller AS(
    SELECT ResellerName, COUNT(*) as total_ventas
    FROM producto_venta_reseller
    GROUP BY ResellerName
),
total_items_reseller AS (
    SELECT ResellerName, SUM(OrderQuantity) as total_productos
    FROM producto_venta_reseller
    GROUP BY ResellerName
)
SELECT tvr.ResellerName, total_ventas, tir.total_productos
FROM total_vtas_reseller tvr
LEFT JOIN total_items_reseller tir ON tvr.ResellerName = tir.ResellerName"

q10 <- dbGetQuery(con, query10)
print(q10)

```

	ResellerName	total_ventas	total_productos
1	A Bike Store	73	121
2	A Great Bicycle Company	14	21
3	A Typical Bike Shop	75	137
4	Acceptable Sales & Service	3	3
5	Accessories Network	4	5
6	Acclaimed Bicycle Company	11	16
7	Ace Bicycle Supply	6	7
8	Action Bicycle Specialists	179	1090
9	Active Cycling	2	5
10	Active Life Toys	173	468
11	Active Systems	6	20
12	Active Transport Inc.	71	118
13	Activity Center	73	167
14	Advanced Bike Components	394	1695
15	Aerobic Exercise Company	10	21
16	Affordable Sports Equipment	269	685
17	All Cycle Shop	28	93
18	All Seasons Sports Supply	12	14
19	Alpine Ski House	14	27
20	Alternative Vehicles	11	18
21	Amalgamated Parts Shop	156	862
22	Another Bicycle Company	176	601
23	Area Bike Accessories	273	942
24	Area Sheet Metal Supply	7	15
25	Associated Bikes	16	29
26	Atypical Bike Company	2	2
27	Authentic Sales and Service	13	40
28	Authorized Bike Sales and Rental	82	234
29	Basic Bike Company	27	45
30	Basic Sports Equipment	64	215
31	Beneficial Exercises and Activities	5	5
32	Best Cycle Store	177	1052
33	Best o' Bikes	34	100
34	Better Bike Shop	359	1207
35	Bicycle Accessories and Kits	11	14
36	Bicycle Exporters	38	62
37	Bicycle Lines Distributors	250	693
38	Bicycle Merchandise Warehouse	219	1056
39	Bicycle Outfitters	116	302
40	Bicycle Warehouse Inc.	39	123
41	Big Cycle Mall	11	18
42	Big-Time Bike Store	75	134

43	Bike Boutique	179	477
44	Bike Dealers Association	432	1951
45	Bike Experts	177	667
46	Bike Goods	54	83
47	Bike Part Wholesalers	171	498
48	Bike Products and Accessories	22	42
49	Bike Rims Company	80	203
50	Bike World	93	365
51	Bikes and Motorbikes	251	1578
52	Bikes for Kids and Adults	44	115
53	Bikes for Two	27	59
54	Black Bicycle Company	2	2
55	Blue Bicycle Company	5	8
56	Blue-Ribbon Bike Company	115	222
57	Bold Bike Accessories	75	172
58	Brakes and Gears	298	1558
59	Brightwork Company	114	388
60	Budget Bike Company	3	3
61	Budget Toy Store	131	378
62	Bulk Discount Store	331	1126
63	Camping and Sports Store	122	533
64	Capable Sales and Service	37	118
65	Capital Riding Supplies	10	19
66	Cash & Carry Bikes	5	10
67	Casual Bicycle Store	263	1104
68	Catalog Store	255	681
69	Center Cycle Shop	2	2
70	Central Bicycle Specialists	4	4
71	Central Discount Store	95	246
72	Certified Bicycle Supply	99	265
73	Certified Sports Supply	7	12
74	Chain and Chain Tool Distributions	1	1
75	Channel Outlet	20	68
76	Chic Department Stores	260	702
77	City Manufacturing	10	14
78	Citywide Service and Repair	356	1605
79	Clamps & Brackets Co.	29	88
80	Classic Cycle Store	92	249
81	Client Discount Store	47	95
82	Closeout Boutique	375	1776
83	Closest Bicycle Store	117	328
84	Coalition Bike Company	54	117
85	Coho Sports	14	21

86	Commendable Bikes	13	17
87	Commerce Bicycle Specialists	314	1079
88	Commercial Sporting Goods	187	1322
89	Community Department Stores	78	304
90	Commuter Bicycle Store	20	51
91	Consolidated Messenger	139	492
92	Consolidated Sales	125	441
93	Convenient Bike Shop	31	80
94	Convenient Sales and Service	129	273
95	Corner Bicycle Supply	429	1708
96	Countryside Company	14	20
97	Courteous Bicycle Specialists	7	7
98	Cross-Country Riding Supplies	25	46
99	Curbside Universe	24	38
100	Custom Accessories Company	250	897
101	Cycle Clearance	11	21
102	Cycle Merchants	17	20
103	Cycle Parts and Accessories	141	391
104	Cycles and Scooters	13	30
105	Cycles Sales and Repair	46	134
106	Cycles Wholesaler & Mfg.	104	231
107	Cycling Goods	97	222
108	Daring Rides	59	102
109	Demand Distributors	11	18
110	Designated Distributors	103	371
111	Discount Bicycle Specialists	1	1
112	Discount Tours	67	200
113	Distance Bikes	7	8
114	Distant Inn	96	359
115	Distinctive Cycles Sales & Service	9	12
116	Distinctive Store	24	51
117	District Mall	69	123
118	Downhill Bicycle Specialists	166	676
119	Downtown Hotel	54	194
120	Eastside Cycle Shop	5	5
121	Eastside Department Store	401	2554
122	Eastside Parts Shop	4	5
123	Eastside Sporting Goods	194	772
124	Eastward Bike Accessories	7	7
125	eCommerce Bikes	263	942
126	Economy Bikes Company	5	6
127	Economy Center	3	3
128	Educational Services	167	513

129	Efficient Cycling	14	23
130	Eighth Bike Store	102	188
131	Eighty Toy Stores	29	80
132	Elemental Sporting Goods	75	214
133	Eleventh Bike Store	1	2
134	Elite Bikes	189	716
135	Endurance Bikes	5	7
136	Engineered Bike Systems	30	46
137	Enterprise Center	16	31
138	Essential Bike Works	2	11
139	Every Bike Shop	184	399
140	Excellent Bikes	155	846
141	Excellent Riding Supplies	366	1322
142	Exceptional Cycle Services	41	137
143	Exchange Parts Inc.	116	205
144	Exclusive Bicycle Mart	7	9
145	Executive Discount Store	3	6
146	Executive Gift Store	118	332
147	Exemplary Cycles	31	36
148	Exercise Center	6	14
149	Exhibition Showroom	228	1005
150	Exhilarating Cycles	373	1627
151	Exotic Bikes	62	128
152	Expert Sports Store	6	11
153	Express Bike Services	39	140
154	Extended Bike Sales	78	263
155	Extended Tours	9	13
156	Extraordinary Bike Works	279	1115
157	Extras Sporting Goods	1	1
158	Extreme Riding Supplies	80	258
159	Extreme Toy Store	23	53
160	Fabrikam Inc., East	88	216
161	Fabrikam Inc., West	283	978
162	Fad Outlet	22	42
163	Family Cycle Store	181	574
164	Family Entertainment Center	7	8
165	Family's Favorite Bike Shop	17	25
166	Famous Bike Sales and Service	65	142
167	Famous Bike Shop	61	194
168	Farthermost Bike Shop	422	1488
169	Farthest Bike Store	145	794
170	Fashionable Bikes and Accessories	258	840
171	Fashionable Department Stores	401	1648

172	Fast Bike Works	45	106
173	Fast Services	12	19
174	Fasteners & Bolts Outlet	147	434
175	Favorite Toy Distributor	112	478
176	Field Trip Inc	31	72
177	Field Trip Store	357	1946
178	Fifth Bike Store	22	32
179	Finer Cycle Shop	85	309
180	Finer Mart	12	14
181	Finer Parts Shop	131	342
182	Finer Riding Supplies	250	673
183	Finer Sporting Goods	60	147
184	Finish and Sealant Products	12	29
185	Finished Parts Shop	39	86
186	First Bike Store	312	1155
187	First Center	4	5
188	First Cycle Store	115	266
189	First Department Stores	59	142
190	First Supplies	38	73
191	First-Rate Outlet	10	12
192	Fitness Bike Accessories	9	10
193	Fitness Cycling	5	7
194	Fitness Department Stores	3	3
195	Fitness Discount Store	26	73
196	Fitness Hotel	20	27
197	Fitness Sport Boutique	131	646
198	Fitness Supplies	164	470
199	Fitness Toy Store	336	1344
200	Fitness Toys	8	9
201	Fleet Bikes	6	7
202	Fourth Bike Store	172	490
203	Friendly Bike Shop	323	1602
204	Friendly Neighborhood Bikes	15	40
205	Front Runner Bikes	170	850
206	Front Sporting Goods	181	692
207	Frugal Bike Shop	193	588
208	Full Sports Supply	41	136
209	Full-Service Bike Store	26	50
210	Fun Times Club	218	475
211	Fun Toys and Bikes	101	185
212	Functional Store South	224	1055
213	Future Bikes	12	20
214	Futuristic Bikes	20	41

215	Futuristic Sport Distributors	317	1545
216	Games and Sport Supply Company	9	20
217	Gasless Cycle Shop	130	308
218	Gears and Parts Company	92	238
219	Gear-Shift Bikes Limited	1	1
220	General Associates	106	181
221	General Bike Corporation	128	340
222	General Cycle Storehouse	134	503
223	General Department Stores	53	111
224	General Industries	54	229
225	General Riding Supplies	2	2
226	General Supplies	334	1012
227	Genial Bike Associates	250	680
228	Genuine Bike Shop	59	149
229	Getaway Inn	289	1208
230	Gift and Toy Store	107	282
231	Global Bike Retailers	196	1052
232	Global Plaza	36	173
233	Global Sports Outlet	8	9
234	Glossy Bikes	204	736
235	Go-cart and Bike Specialists	146	623
236	Golf and Cycle Store	207	884
237	Good Bicycle Store	2	2
238	Good Bike Shop	320	787
239	Good Toys	8	10
240	Grand Bicycle Stores	11	20
241	Grand Discount Store	310	1234
242	Grand Industries	77	239
243	Grand Sport Boutique	86	323
244	Grease and Oil Products Company	102	268
245	Great Bicycle Supply	38	188
246	Great Bikes	290	1382
247	Greater Bike Store	72	214
248	Grown-up Bike Store	30	56
249	Guaranteed Sales and Service	91	377
250	Handy Bike Services	10	16
251	Hardware Components	85	431
252	Health Spa, Limited	352	1408
253	Helmets and Cycles	113	198
254	Helpful Sales and Repair Service	146	431
255	Highway Bike Shop	111	293
256	Historic Bicycle Sales	17	33
257	Hobby Store	13	29

258	Home Town Bike Store	7	8
259	Hometown Riding Supplies	1	2
260	Honest Repair Service	79	234
261	Ideal Components	3	7
262	Immediate Repair Shop	198	641
263	Immense Manufacturing Company	71	226
264	Impervious Paint Company	17	41
265	Imported and Domestic Cycles	1	1
266	Incomparable Bicycle Store	21	29
267	Industrial Supplies	79	228
268	Inexpensive Parts Shop	36	126
269	Initial Bike Company	264	918
270	Instant Cycle Store	18	25
271	Instruments and Parts Company	125	363
272	Journey Sporting Goods	52	154
273	Jumbo Bikes	2	2
274	Juvenile Sports Equipment	168	566
275	Kickstand Sellers	6	13
276	Kickstands and Accessories Company	107	192
277	Kids and Adults Cycle Shop	3	5
278	Large Bike Shop	2	2
279	Larger Cycle Shop	482	2076
280	Largest Bike Store	8	10
281	Latest Accessories Sales	13	24
282	Latest Sports Equipment	332	1578
283	Leading Bike Distributors	37	108
284	Leading Sales & Repair	103	366
285	Lease-a-Bike Shop	280	701
286	Leather and Vinyl Manufacturing	74	173
287	Leather Seat Factory	241	1192
288	Leisure Activities	23	50
289	Leisure Clearing House	13	22
290	Liquidation Sales	79	184
291	List Price Catalog Company	68	250
292	Little Bicycle Supply Shop	6	13
293	Local Hardware Factory	32	105
294	Local Sales and Rental	12	19
295	Locks Company	44	77
296	Lots of Bikes Storehouse	6	6
297	Low Price Cycles	14	38
298	Lubricant and Grease Suppliers	83	309
299	Lustrous Paints and Components	1	2
300	Machines & Cycles Store	55	100

301	Mail Market	6	9
302	Mail-Order Outlet	286	990
303	Maintenance and Repair for Bicycles	12	18
304	Major Amusement Company	70	219
305	Major Bicycle Store	1	1
306	Major Cycling	14	18
307	Major Sport Suppliers	5	5
308	Major Sporting Goods	2	2
309	Manufacturers Inc	73	202
310	Many Bikes Store	301	1119
311	Mechanical Products Ltd.	104	273
312	Mechanical Sports Center	50	178
313	Mercantile Outlet	105	293
314	Metal Clearing House	99	169
315	Metal Processing Company	142	363
316	Metro Bike Mart	144	377
317	Metro Bike Works	9	17
318	Metro Cycle Shop	151	402
319	Metro Manufacturing	82	295
320	Metro Metals Co.	120	465
321	Metro Sports Equipment	117	315
322	Metropolitan Bicycle Supply	303	1351
323	Metropolitan Equipment	405	2129
324	Metropolitan Manufacturing	68	208
325	Metropolitan Sales and Rental	10	10
326	Metropolitan Sports Supply	85	299
327	Mobile Outlet	1	1
328	Moderately-Priced Bikes Store	68	145
329	Modern Bike Store	85	143
330	Modular Cycle Systems	235	980
331	More Bikes!	6	9
332	Mountain Bike Center	255	862
333	Mountain Bike Store	102	184
334	Mountain Emporium	1	5
335	Mountain Toy Store	13	13
336	National Manufacturing	110	251
337	Nationwide Supply	196	975
338	Nearby Bike Mall	31	49
339	Nearby Cycle Shop	198	617
340	Nearby Sporting Goods	5	10
341	Nearest Bike Store	6	7
342	Neighborhood Bicycle Storehouse	7	11
343	Neighborhood Store	152	623

344	New and Used Bicycles	304	685
345	New Bikes Company	6	6
346	Next Door Cycles	134	391
347	Next-Door Bike Store	128	448
348	Nice Bikes	15	26
349	Noiseless Gear Company	210	609
350	Nonskid Tire Company	26	44
351	Non-Slip Pedal Company	79	131
352	North Bike Company	56	195
353	Novelty Bikes	24	49
354	Number 1 Supply	219	623
355	Number One Bike Co.	55	107
356	Odometers and Accessories Company	154	900
357	Official Parts Shop	87	339
358	Off-Price Bike Center	4	4
359	Oils and Fluids Warehouse	46	156
360	One Bike Company	47	183
361	One-Piece Handle Bars	1	1
362	Online Bike Catalog	7	12
363	Online Bike Sellers	5	15
364	Online Bike Warehouse	2	2
365	Only Bikes and Accessories	15	24
366	Operational Manufacturing	3	5
367	Optimal Bikes	14	23
368	Orange Bicycle Company	56	231
369	Original Bicycle Supply Company	387	1236
370	Our Sporting Goods Store	19	26
371	Outdoor Aerobic Systems Company	3	3
372	Outdoor Equipment Store	332	1688
373	Outdoor Sporting Goods	13	32
374	Outdoor Sports Supply	54	171
375	Outstanding Cycles	165	880
376	Paint Supply	376	1203
377	Painters Bicycle Specialists	150	494
378	Paints and Solvents Company	55	156
379	Parcel Express Delivery Service	1	1
380	Parts Shop	1	1
381	Pedal Systems Company	4	5
382	Pedaling Components	37	105
383	Pedals Warehouse	8	14
384	Perfect Toys	123	578
385	Permanent Finish Products	391	1782
386	Petroleum Products Distributors	168	910

387	Plastic Parts Company	8	11
388	Plastic Products Manufacturers	35	61
389	Popular Bike Lines	156	459
390	Practical Bike Supply Company	8	11
391	Preferred Bikes	328	1203
392	Pretty Bikes and Toys	91	228
393	Price-Cutter Discount Bikes	83	195
394	Primary Bike Distributors	170	547
395	Primary Cycle Shop	14	21
396	Principal Bike Company	64	127
397	Producer Goods Clearinghouse	26	38
398	Professional Containers and Packaging Co.	34	94
399	Professional Cycle Store	191	623
400	Professional Cyclists	18	32
401	Professional Sales and Service	162	499
402	Professional Sporting Goods	6	9
403	Progressive Sports	70	198
404	Prosperous Tours	369	1666
405	Purchase Mart	21	35
406	Qualified Sales and Repair Services	115	366
407	Quality Bike Sales	5	7
408	Quantity Discounts	229	539
409	Quick Delivery Service	15	23
410	Quick Parts and Service	98	180
411	Quitting Business Distributors	40	56
412	Racing Association	5	9
413	Racing Bike Outlet	15	22
414	Racing Partners	26	56
415	Racing Sales and Service	188	707
416	Racing Supply Distributors	50	73
417	Racing Tours	42	147
418	Racing Toys	61	106
419	Racks and Security Systems	6	9
420	Rally Day Mall	358	1588
421	Rally Master Company Inc	110	507
422	Rambling Tours	2	4
423	Rampart Amusement Company	9	12
424	Rapid Bikes	446	1843
425	Raw Materials Inc	64	153
426	Real Sporting Goods	418	1887
427	Reasonable Bicycle Sales	329	1386
428	Recommended Bicycles	2	2
429	Recreation Supplies	1	2

430	Recreation Systems	16	25
431	Recreation Toy Store	30	53
432	Red Bicycle Company	220	709
433	Regional Cycle Shop	3	4
434	Regional Manufacturing	2	4
435	Registered Cycle Store	440	2313
436	Reliable Brake Systems	44	103
437	Reliable Retail Center	15	21
438	Remarkable Bike Store	83	311
439	Remote Bicycle Specialists	62	177
440	Rental Bikes	33	90
441	Rental Gallery	36	122
442	Requisite Part Supply	27	81
443	Resale Services	374	1337
444	Responsible Bike Dealers	65	193
445	Retail Cycle Shop	1	4
446	Retail Discount Store	1	1
447	Retail Mall	451	1931
448	Retail Sales and Service	279	675
449	Retail Sporting Equipment	91	288
450	Retail Sporting Goods	1	1
451	Retail Toy Store	7	10
452	Retirement Activities Association	4	4
453	Retread Tire Company	8	13
454	Retreat Inn	21	45
455	Rewarding Activities Company	436	1963
456	Rich Department Store	73	212
457	Riders Company	378	1058
458	Riding Associates	18	49
459	Riding Cycles	184	1078
460	Riding Excursions	1	1
461	Riverside Company	34	137
462	Road Way Sales and Rental	2	2
463	Roadway Bicycle Supply	145	766
464	Roadway Bike Emporium	71	231
465	Road-Way Mart	1	2
466	Roadway Supplies	2	3
467	Rodeway Bike Store	165	592
468	Roving Sports	23	64
469	Rugged Bikes	84	269
470	Running and Cycling Gear	139	381
471	Rural Cycle Emporium	267	1189
472	Rural Department Store	24	32

473	Rural Mountain Bike Mart	52	207
474	Rural Sales and Service	7	10
475	Rustic Bike Store	9	9
476	Safe Cycles Shop	375	1606
477	Safe Toys	38	95
478	Sales and Supply Company	304	1784
479	Sample Bike Store	58	105
480	Satin Finish Company	263	691
481	Scooters and Bikes Store	106	266
482	Scratch-Resistant Finishes Company	36	63
483	Seaside Bike Works	17	29
484	Seats and Saddles Company	1	1
485	Second Bike Shop	3	3
486	Security Racks and Locks Wholesalers	12	14
487	Selected Distributors	22	39
488	Self-Contained Cycle Parts Company	9	9
489	Sellers of Cycles	26	63
490	Sensational Discount Store	1	1
491	Sensible Sports	21	28
492	Separate Parts Corporation	268	642
493	Serious Cycles	67	195
494	Seventh Bike Store	380	1073
495	Sharp Bikes	19	34
496	Sheet Metal Manufacturing	371	1471
497	Shipping Specialists	2	5
498	Showcase for Cycles	2	2
499	Simple Bike Parts	13	15
500	Sixth Bike Store	38	86
501	Sleek Bikes	84	255
502	Small Bike Accessories Shop	83	228
503	Small Bike Shop	249	750
504	Small Cycle Store	121	274
505	Social Activities Club	14	20
506	Solid Bike Parts	114	243
507	Some Discount Store	31	76
508	South Bike Company	65	162
509	Spa and Exercise Outfitters	264	1124
510	Spare Parts Co.	297	1042
511	Sparkling Paint and Finishes	34	86
512	Specialty Sports Store	15	31
513	Spoke Manufacturers	5	5
514	Sports Commodities	22	33
515	Sports Merchandise	72	209

516	Sports Products Store	76	164
517	Sports Sales and Rental	44	107
518	Sports Store	9	14
519	Standard Bikes	60	199
520	Stationary Bikes and Stands	75	174
521	Steel Inc.	233	1292
522	Stock Parts and Supplies	89	258
523	Sturdy Toys	193	732
524	Stylish Department Stores	14	30
525	Suburban Cycle Shop	24	69
526	Successful Sales Company	95	246
527	Summer Sports Place	4	5
528	Sundry Sporting Goods	317	771
529	Sunny Place Bikes	106	338
530	Super Sports Store	53	90
531	Superb Sales and Repair	89	160
532	Superior Hardware Distributors	8	10
533	Superlative Bikes	39	75
534	Sure & Reliable Sporting Goods	228	593
535	Swift Cycles	170	348
536	Synthetic Materials Manufacturing	5	7
537	Systematic Sales	23	45
538	Tachometers and Accessories	39	84
539	Tandem Bicycle Store	30	54
540	Tandem Sales and Service	30	54
541	Technical Parts Manufacturing	119	335
542	Tenth Bike Store	282	928
543	The Accessories Store	8	9
544	The Bicycle Accessories Company	34	145
545	The Bike Mechanics	45	96
546	The Bike Outlet	100	176
547	The Bike Shop	14	22
548	The Commissary	2	3
549	The Cycle Store	1	1
550	The Gear Store	393	1579
551	The New Bike Store	7	10
552	The Showroom	5	7
553	Third Bike Store	42	78
554	This Area Sporting Goods	45	177
555	Thorough Parts and Repair Services	358	1344
556	Thrifty Parts and Sales	8	13
557	Thrilling Bike Tours	53	90
558	Tiny Bike Boutique	132	311

559	Tire Company	17	26
560	Tire Exchange	68	224
561	Top Bike Market	11	18
562	Top of the Line Bikes	5	6
563	Top Sports Supply	441	2350
564	Totes & Baskets Company	436	1736
565	Tough and Reliable Parts	13	23
566	Touring Services	19	27
567	Town Industries	5	12
568	Traditional Department Stores	120	465
569	Trailblazing Sports	279	795
570	Transport Bikes	11	17
571	Transportation Options	7	8
572	Travel Sports	165	584
573	Travel Systems	35	67
574	Tread Industries	81	356
575	Trendy Department Stores	7	8
576	Trusted Catalog Store	104	325
577	Tubeless Tire Company	1	1
578	Twelfth Bike Store	264	981
579	Twin Cycles	13	13
580	Two Bike Shops	12	15
581	Two Wheels Cycle Store	24	52
582	Two-Seater Bikes	4	5
583	Two-Wheeled Transit Company	53	114
584	Ultimate Bicycle Company	143	372
585	Ultimate Bike Shop	44	108
586	Uncompromising Quality Co	11	14
587	Underglaze and Finish Company	157	526
588	Unified Sports Company	57	123
589	Unique Bikes	31	73
590	Unsurpassed Bikes	21	40
591	Unusual Bicycle Company	10	14
592	Up-To-Date Sports	115	296
593	Urban Sports Emporium	103	257
594	Utilitarian Sporting Goods	101	291
595	Uttermost Bike Shop	283	879
596	Vale Riding Supplies	13	20
597	Valley Bicycle Distributors	43	68
598	Valley Bicycle Specialists	150	382
599	Valley Toy Store	235	732
600	Valuable Bike Parts Company	315	1101
601	Variety Cycling	57	137

602	Vast Bike Sales and Rental	65	161
603	Vehicle Shop	29	82
604	Versatile Sporting Goods Company	9	16
605	Very Best Sports Supply	30	44
606	Vigorous Exercise Company	530	2737
607	Vigorous Sports Store	12	16
608	Village Tours	36	97
609	Vintage Sport Boutique	146	434
610	Vinyl and Plastic Goods Corporation	10	15
611	Weekend Bike Tours	1	1
612	Weekend Tours	72	123
613	West Side Mart	3	4
614	West Wind Distributors	22	35
615	Western Bike Supplies	21	47
616	Westside Cycle Store	10	25
617	Westside Plaza	203	1363
618	Wheel Gallery	22	28
619	Wheels Inc.	3	3
620	Wheelsets Storehouse	254	1410
621	Wholesale Bikes	61	128
622	Wholesale Parts	59	124
623	Widget Bicycle Specialists	1	1
624	Wingtip Toys	3	8
625	Wire Baskets and Parts	90	174
626	Wonderful Bikes Inc.	54	203
627	Work and Play Association	102	236
628	Workout Emporium	10	15
629	World Bike Discount Store	10	14
630	World of Bikes	289	1054
631	Worthwhile Activity Store	112	304
632	Year-Round Sports	43	101
633	Yellow Bicycle Company	28	57

2 Query 7

```
query7 <- "WITH orderid_reseller AS (SELECT DISTINCT rsales.SalesOrderNumber, dr.ResellerName
FROM dbo.FactResellerSales rsales
LEFT JOIN dbo.DimReseller dr ON rsales.ResellerKey = dr.ResellerKey
WHERE YEAR(rsales.OrderDate) IN (2010, 2011, 2012, 2013))
SELECT TOP 5 ResellerName, COUNT(*) as total_ventas"
```

```

FROM orderid_reseller
GROUP BY ResellerName
ORDER BY total_ventas DESC"
q7 <- dbGetQuery(con, query7)
q7 %>%
  gt() %>%
  tab_header(title = md("**Análisis exploratorio**"),
             subtitle = 'Distribución de las variables numéricas' ) %>%
  opt_align_table_header('left')

```

Análisis exploratorio
Distribución de las variables numéricas

ResellerName	total_ventas
Friendly Bike Shop	15
Advanced Bike Components	12
Area Bike Accessories	12
Basic Sports Equipment	12
Better Bike Shop	12

3 Query 8

```

query8 <- "WITH orden_reseller_anio AS (
  SELECT DISTINCT rsales.SalesOrderNumber, dr.ResellerName, YEAR(rsales.OrderDate) AS anio
  FROM dbo.FactResellerSales rsales
  LEFT JOIN dbo.DimReseller dr ON rsales.ResellerKey = dr.ResellerKey
  WHERE YEAR(rsales.OrderDate) IN (2010, 2011, 2012, 2013)
),
top_resellers AS (
  SELECT TOP 5 ResellerName, COUNT(*) AS total_ventas
  FROM dbo.FactResellerSales rsales
  LEFT JOIN dbo.DimReseller dr ON rsales.ResellerKey = dr.ResellerKey
  WHERE YEAR(rsales.OrderDate) IN (2010, 2011, 2012, 2013)
  GROUP BY ResellerName
  ORDER BY COUNT(*) DESC
)
SELECT ora.ResellerName, anio, COUNT(*) AS total_ventas_reseller_anio
FROM orden_reseller_anio ora
JOIN top_resellers ON ora.ResellerName = top_resellers.ResellerName

```

```

GROUP BY ora.ResellerName, anio"
q8 <- dbGetQuery(con, query8)
q8 %>%
  gt() %>%
  tab_header(title = md('**Recorrido de mejores resellers**'),
             subtitle = 'Año a año' ) %>%
  opt_align_table_header('left')

```

Recorrido de mejores resellers

Año a año

ResellerName	anio	total_ventas_reseller_anio
Retail Mall	2010	1
Larger Cycle Shop	2011	4
Rapid Bikes	2011	4
Retail Mall	2011	4
Top Sports Supply	2011	1
Vigorous Exercise Company	2011	4
Larger Cycle Shop	2012	4
Rapid Bikes	2012	4
Retail Mall	2012	4
Top Sports Supply	2012	4
Vigorous Exercise Company	2012	4
Larger Cycle Shop	2013	4
Rapid Bikes	2013	4
Retail Mall	2013	3
Top Sports Supply	2013	3
Vigorous Exercise Company	2013	4

3.1 Línea de tiempo

4 Query 9